FIG. 1

GUI widget **105**

100

data **110**

validation object **115**

data model **120**

FIG. 2

GUI widget **105**

GUI widget **205**

100

data **110**

validation object **115**

data model **120**
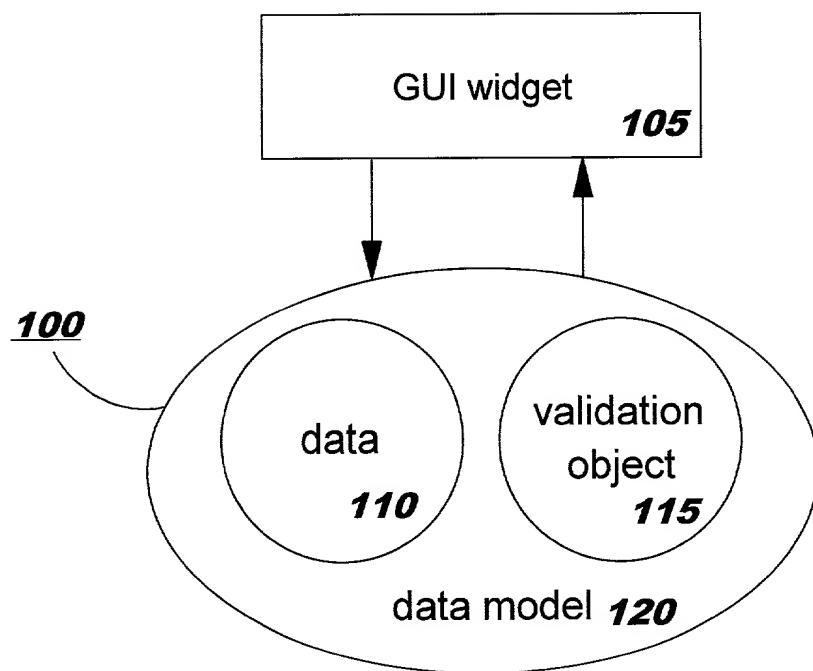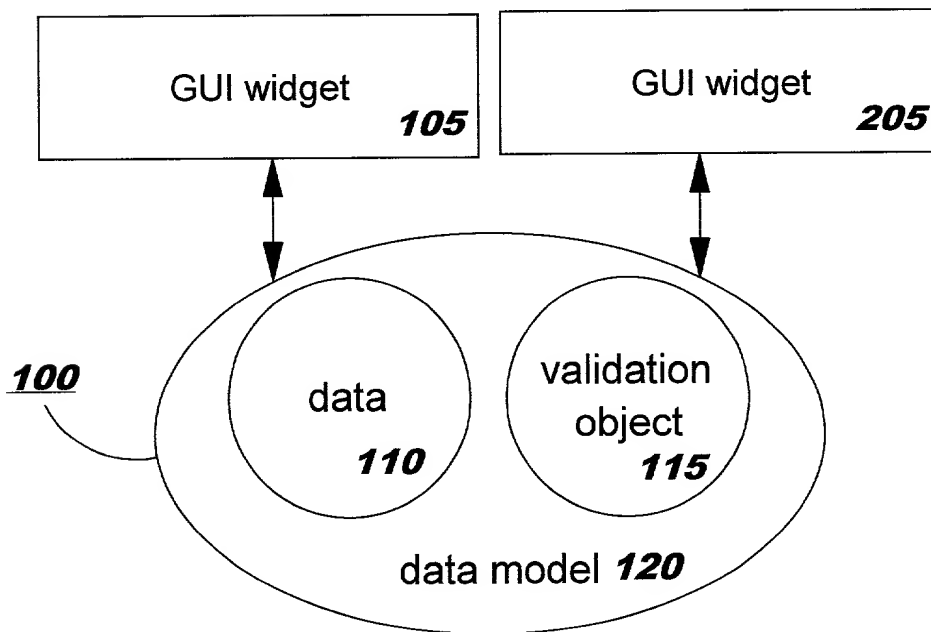
FIG. 3

300

```
305 <stringVariable
310 name="social_security_number"
315 minimumLength="9"
320 maximumLength="9">
325 <labelText>SSN</labelText>
330 <helpText>The social security number of the applicant.</helpText>
335 <mnemonic>D</mnemonic>
    <inputValidation>
      <ignore>
345   <characters>-</characters>
      </ignore>
      <valid>
350   <characters>0123456789-</characters>
      </valid>
    </inputValidation>
  </stringVariable>
```
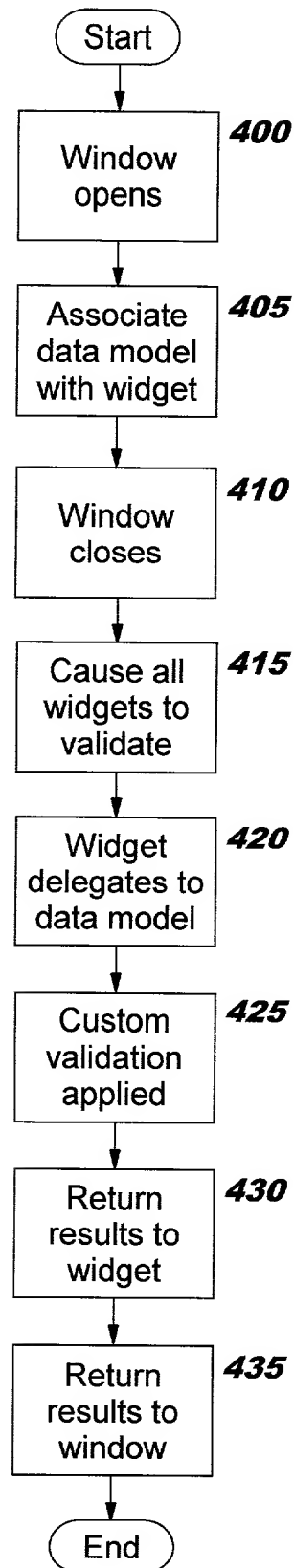
340

FIG. 4

Start

Window
opens *400*

Associate
data model
with widget *405*

Window
closes *410*

Cause all
widgets to
validate *415*

Widget
delegates to
data model *420*

Custom
validation
applied *425*

Return
results to
widget *430*

Return
results to
window *435*

End